

US EPA RECORDS CENTER REGION 5



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Monthly Oversight Report 14
ACS NPL Site
Griffith, Indiana
February 2, 2002 - March 1, 2002



BLACK & VEATCH

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Black & Veatch Special Projects Corp.

USEPA/RAC VII
American Chemical Services RAO (057-ROBF-05J7)

BVSPC Project 46526
BVSPC File C.3
March 6, 2002

Mr. Kevin Adler
U.S. Environmental Protection Agency
77 W. Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

✓ KA.
3/14/02

Subject: Monthly Oversight Summary Report
No. 14 for February 2002

Dear Mr. Adler:

Enclosed is the Monthly Oversight Summary Report No. 14 for February 2002 for the American Chemical Services Superfund Site in Griffith, Indiana.

If you have any questions, please call (312-683-7856) or email (campbellm@bv.com).

Sincerely,

BLACK & VEATCH Special Projects Corp.

Larry M. Campbell, P.E.
Site Manager

Enclosure

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Monthly Oversight Summary Report No. 14
ACS Superfund Site WA57, 46526.238

Reporting Period: Month of February (February 2, 2001 - March 1, 2002)

BVSPC O/S Dates: February 14, 21, and 28, 2002

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	4	Respondent's General Contractor
U.S. Environmental Protection Agency	1	
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	5	Electrical Contractor
Ryan Construction	4	General Contractor
Durr Environmental, Inc.	1	Thermal Oxidizer and Scrubber Contractor
Koester Environmental Services	1	OFCA Cover Contractor

Construction Activities

Major Activities:

- Ryan Construction installed the thermal oxidizer and scrubber at the groundwater treatment plant.
- Austgen installed the control panel for the thermal oxidizer and scrubber system.
- Durr Environmental, Inc. began testing the thermal oxidizer and scrubber system.
- Montgomery Watson Harza performed a "clean air" test of the Off-Site Containment Area in-situ soil vapor extraction system.
- Koester Environmental Services and Austgen repaired Off-Site Containment Area swale 3.
- Montgomery Watson Harza replaced the granular activated carbon in the groundwater treatment plant on February 5, 2002.
- Montgomery Watson Harza exceeded the groundwater treatment plant discharge limit for acetone and biological oxygen demand in January 2002.

- Montgomery Watson Harza held weekly construction coordination meetings at the site on February 7, 14, 21, and 28, 2002.

Activities Performed:

Black & Veatch Special Projects Corp. (BVSPC) observed Ryan Construction install the thermal oxidizer and scrubber in the groundwater treatment plant (GWTP). Montgomery Watson Harza (MWH) reported that it stopped operating the GWTP briefly in order to install the scrubber equipment in the plant, thereby minimizing the hazards associated with moving the large scrubber inside the building. BVSPC also observed Austgen install the control panel for the thermal oxidizer and scrubber system.

Durr Environmental, Inc. (Durr) began inspecting the thermal oxidizer and scrubber system on February 18, 2002. On Wednesday, February 20, 2002, Durr began operating the thermal oxidizer in order to cure the ceramic refractory liner located inside the combustion chamber. The refractory curing process was conducted for 24 hours at a target combustion chamber temperature of 1000°C. When the curing process was complete, Durr began testing the scrubber. During the testing of the scrubber, Durr observed that air was escaping at the manufacturer installed scrubber flanges. Durr ceased testing the scrubber and arranged for Ryan Construction to replace the gaskets on the flanges. BVSPC observed Ryan Construction replace the gaskets for the scrubber system flanges in the GWTP on February 28, 2002. Durr also reported that there was an error with the type of relays and solenoids that were provided for the scrubber system. Austgen subsequently installed the appropriate relays and solenoids for the scrubber. MWH reported that Durr was scheduled to return to the site on March 4, 2002, to complete the ambient air testing of the thermal oxidizer and scrubber system. Pending satisfactory results of the ambient air test, MWH anticipates the start-up of the Off-Site Containment Area (OFCA) in-situ soil vapor extraction system (ISVE) to begin at the end of the week of March 4, 2002. MWH expects Austgen to complete the control logic for the ISVE system by mid to late March.

MWH completed the "clean air" test of the OFCA ISVE system on February 6, 2002, and continued to evaluate the water levels in the OFCA ISVE wells. MWH reported that a significant slug of water is present in the yard piping to OFCA ISVE well SVE-7. MWH began pumping the slug of water out of OFCA ISVE well SVE-7 on February 18, 2002. MWH reported that it was unable to remove the water from the yard piping because of a pump failure. MWH reported that it plans to blow the slug of water back to the well with an air compressor. MWH also reported that it will pressure test the yard piping connecting SVE-7 to the OFCA blower shed in order to confirm that a leak is not present in the line. MWH reported that it will develop a protocol for removing water from the ISVE yard piping based on the actions that it takes for SVE-7. MWH prepared procedures for the clean air start-up of the thermal oxidizer and scrubber system, and for the start-up of the OFCA ISVE system. Ryan Construction installed temperature probes located upstream and downstream of the blower in the OFCA blower shed for monitoring in accordance with the Performance Standard Verification Plan. MWH received the flame-ionization detector and will perform background air monitoring of the OFCA blower shed and the GWTP prior to the OFCA ISVE system startup.

BVSPC observed Austgen repair the riprap in swale 3 located in the northeast corner of the OFCA, near Colfax Ave. on February 21, 2002. Austgen conducted the repairs to swale 3 as a subcontractor to

Koester Environmental Services (KES). MWH reported that a KES representative was on-site on Friday, February 22, 2002, in order to oversee the repair work. MWH also reported that it will conduct maintenance activities for the OFCA cover this spring. Maintenance activities will include replacing erosion matting, installing additional silt fencing, and repairing the erosion fingers present in the clay cover. MWH reported that compaction testing is still required for the cover in the Kapica-Pazmey area that was disturbed during OFCA ISVE yard piping installation activities in December 2001.

MWH continued to pump 30 gpm from the OFCA and On-Site Containment Area extraction wells and the Perimeter Groundwater Containment System. MWH changed the granular activated carbon (GAC) in the GWTP on February 5, 2002. MWH operated the GWTP in recirculation mode after replacing the GAC and resumed normal operation of the GWTP on February 8, 2002. MWH reported that it received the results from the January 2002 compliance sampling of the GWTP effluent. MWH reported that the discharge limits for acetone and biological oxygen demand (BOD) were exceeded. MWH reported that the detections of acetone were verified by two laboratories; therefore, MWH concluded that the detection of acetone is not likely a laboratory artifact. MWH determined that EW-12 is contributing the majority of the acetone and subsequently decreased the flow from EW-12. MWH increased the flow from the remaining extraction wells in order to minimize the acetone concentration while maintaining the total flow through the GWTP. MWH reported that it collected the February 2002 compliance sample on February 13, 2002. MWH reported that results of the sampling indicated that both the acetone and BOD concentrations were less than one-half of the allowable discharge limit. MWH reported that it will continue to actively monitor the GAC in order to prevent future exceedences of the discharge limits. MWH also reported that the removal efficiencies in the Activated Sludge Tank were improving; however, the removal efficiency remained less than desired. MWH is soliciting bids for insulating the Activate Sludge Tank and adding a heat exchanger for the influent lines in order to increase the efficiency of the tank. MWH reported that upgrades to the tank and influent lines would not be conducted until late spring at the earliest.

MWH reported that it relocated several coolers and sampling equipment from split sampling activities conducted by BVSPC. MWH reported that it will dispose of any water samples in the GWTP. MWH and EPA discussed the disposal options for the sample jars containing soil materials. The disposal options discussed included placing the material underneath the OFCA cover in the spring when cover maintenance activities will be conducted.

MWH reported that it is finalizing the *Draft Revised Long-Term Groundwater Monitoring Plan* (RLTGMP) to include the comments provided by USEPA and IDEM. MWH is in the process of coordinating the March 2002 groundwater sampling event in accordance with the RLTGMP. MWH scheduled the abandonment of MW18, P61, and P62 for the week of March 11, 2002. MWH also scheduled to redevelop MW17 and install replacement piezometers during that time. MWH scheduled the groundwater sampling event for the week of March 18, 2002. The groundwater sampling event will consist of sampling 31 wells for volatile organic compounds analysis, 3 wells for the semi-volatile organic compound bis(2-chloroethyl)ether analysis, and 3 wells for arsenic analysis.

Attached are BVSPC weekly reports No. 49 through 52, correspondence, log book notes, and photographs of the daily activities. BVSPC's crew conducted oversight of the major field activities on

February 14, 21, and 28, 2002. BVSPC's crew attended three weekly construction coordination meetings at the site on February 14, 21, and 28, 2002. BVSPC was unable to attend the weekly construction coordination meeting held on February 7, 2002, because of HAZWOPER refresher training.

Topics of Concern:

- MWH was unable to obtain a groundwater elevation at monitoring well MW-18 due to debris in the well. MW-18 is part of the long term monitoring program.
- The residential well located at 1007 Reder Road could not be sampled because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- MWH proposed to replace MW-18 with MW-17 in the *Revised Long-Term Groundwater Monitoring Plan*. MWH scheduled to abandon MW-18 in accordance with the Indiana Administrative Code during the week of March 11, 2002.

Upcoming Activities:

- Durr to complete the ambient air test of the thermal oxidizer and scrubber system during the week of March 4, 2002.
- Austgen to complete the control logic for the OFCA ISVE system.
- MWH to remove water from OFCA ISVE well SVE-7 yard piping.
- MWH to startup the OFCA ISVE system during the week of March 4, 2002.
- MWH to abandon MW18, P61, and P62, redevelop MW17, and install replacement piezometers during the week of March 11, 2002.
- MWH to conduct the March 2002 groundwater sampling event during the week of March 18, 2002.

Signature: Leigh Peters

Date: March 6, 2002

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Weekly Oversight Summary Report No. 49
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of February 4, 2002

BVSPC O/S Dates: Canceled because of limited site activities and training.

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	2	Respondent's General Contractor
Black & Veatch Special Projects Corp.	0	USEPA Oversight Contractor
Austgen	3	Electrical Contractor
Ryan Construction	4	General Contractor

Construction Activities

Major Activities:

- Ryan Construction began installing the thermal oxidizer and scrubber in the groundwater treatment plant.
- Austgen continued developing the control logic for the Off-Site Containment Area in-situ soil vapor extraction system.
- Montgomery Watson Harza changed the granular activated carbon in the groundwater treatment plant on February 5, 2002.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Montgomery Watson Harza (MWH) reported that Ryan Construction began installing the thermal oxidizer and scrubber at the groundwater treatment plant (GWTP). MWH reported that Austgen continued to develop and install the control system logic for the Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) system. MWH also reported that because of the delay in the delivery of the equipment, Durr Environmental, Inc. is scheduled to begin testing the thermal oxidizer and scrubber system on February 18, 2002. MWH postponed the start up of the ISVE system to the middle of the week of February 18, 2002. MWH completed the "clean air" test of the OFCA ISVE system on February 6, 2002. MWH reported that a significant slug of water is present in the yard piping to OFCA ISVE well SVE-7 and that it will be removed prior to system startup. MWH also reported that it continued to evaluate the water levels in the OFCA and OFCA ISVE wells.

MWH reported that the repairs to swale 3, located in the northeast corner of the OFCA, will be conducted by Austgen as a subcontractor to Koester Environmental Services. The repairs will be completed when

the ground is frozen or is dry in order to eliminate the potential for additional damage to the cover from the repair work.

MWH changed the granular activated carbon (GAC) in the GWTP on February 5, 2002. MWH operated the GWTP in recirculation mode after changing the GAC and resumed normal operation of the GWTP on February 8, 2002. MWH reported that the removal efficiencies in the Activated Sludge Tank were improving; however, MWH continued to investigate insulating the tank and influent water for next winter.

MWH held the weekly construction coordination meeting at the site on February 7, 2002. Black & Veatch Special Projects Corp. was unable to attend the weekly construction coordination meeting because of HAZWOPER refresher training.

Topics of Concern:

- MWH was unable to obtain a groundwater elevation at monitoring well MW-18 due to debris in the well. MW-18 is part of the long term monitoring program.
- The residential well located at 1007 Reder Road could not be sampled because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- MWH proposed to replace MW-18 with MW-17 in the *Revised Long-Term Groundwater Monitoring Plan*. MWH will abandon MW-18 in accordance with the Indiana Administrative Code.

Upcoming Activities:

- Ryan Construction to continue installation activities for the thermal oxidizer and scrubber in the GWTP.
- Durr to test the thermal oxidizer and scrubber during the week of February 18, 2002.
- Austgen to complete the control logic for the OFCA ISVE system.
- Austgen to repair swale 3 located near Colfax Ave.
- MWH to remove the water from OFCA ISVE well SVE-7 yard piping.
- MWH to startup the OFCA ISVE system during the week of February 18, 2002.

Signature: Leigh Peters

Date: February 12, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR FEBRUARY 7, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: February 7, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary (Tom Tinics)

GWTP Status (Tom Tinics)

In-Situ Vapor Extraction (ISVE) System – Off-Site Area (Chris Daly)

- Clean-air system test completed
- Controls/PLC at Blower Shed by Austgen
- Thermal Oxidizer/Scrubber assembly by Ryan Construction
- Anticipated schedule

Off-Site Area Temporary Engineered Cover (Tom Tinics)

- Installation of additional geotextile and replacement of riprap by Koester

Looking Ahead (Tom Tinics)

- Week of Feb. 11 - Thermal Oxidizer/Scrubber assembly continues
- Week of Feb. 18 – Clean air testing of Thermal Oxidizer/Scrubber
- ISVE system startup

Next Weekly Construction Meeting

- Thursday, February 14, 2002

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR FEBRUARY 7, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: February 7, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Tom Tinics - MWH
Rob Adams – MWH
Chris Daly – MWH
Travis Klingforth – MWH (via phone)
Kevin Adler – U.S. EPA (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidences have occurred since the last meeting, January 31, 2002. Ryan Construction is on site to install and assemble the Thermal Oxidizer/Scrubber system. A manlift with the associated documentation and certifications has been brought to the site to assist in this work. Also, a crane was used to lift the scrubber unit inside the treatment building. Appropriate safety procedures were followed during this operation.

GWTP Status

The GWTP currently is receiving influent water from three Off-Site BWES Wells (EW-11, EW-12, and EW-19) and On-Site BWES wells (EW-10, EW-17, and EW-18) and the Perimeter Groundwater Containment System (PGCS). Total flow through the GWTP is approximately 30 gpm. MWH performed a carbon changeout on February 5, 2002.

The most recent sampling event indicates microorganisms are growing at a decent rate and removal efficiencies in the activated sludge plant are increasing.

MWH is currently receiving bids for the insulation of the activated sludge plant and the aeration tank. MWH is also investigating options for the installation of a heat exchanger to transfer heat from the new thermal oxidizer to the activated sludge plant influent water.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

The clean air system test was completed on February 6, 2002. A “dry run” of system performance monitoring was included in this test. The ability to monitor the parameters required per the Performance Standard Verification Plan (PSVP) was verified. Flow to each well was also verified. SVE-07 contains a significant slug of water in the pipe. This water will need to be pumped from the pipe prior to system startup.

Ryan Construction is currently installing and assembling the Thermal Oxidizer/Scrubber system. The startup testing of the system with the Durr representative present has been rescheduled to February 18, 2002 to accommodate the two week assembly period.

Off-Site Area Temporary Engineered Cover

Austgen, as subcontractor to Koester Environmental Services, has been unable to access the Off-Site Area to perform the repair of the cover due to soft ground conditions. To avoid causing more damage to the cover, Austgen will delay this work until the ground either dries or freezes.

Dewatering Progress

MWH completed water level gauging in all the SVE wells this week. Initial analysis indicates the dewatering progress in the Off-Site Area is making progress. MWH is still in the process of evaluating the depth of water and unsaturated ISVE well screen intervals to determine system startup options.

Looking Ahead

Week of February 11	-Thermal Oxidizer/Scrubber system assembly continues
Week of February 18	-Startup testing of Thermal Oxidizer/Scrubber
	-ISVE system start up

Next Weekly Construction Meeting

Thursday, February 14, 2002

CAD/RAA

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Weekly Oversight Summary Report No. 50
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of February 11, 2002

BVSPC O/S Dates: February 14, 2002 (Ms. Peters)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	4	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Austgen	3	Electrical Contractor
Ryan Construction	3	General Contractor

Construction Activities

Major Activities:

- Ryan Construction continued installing the thermal oxidizer and scrubber in the groundwater treatment plant.
- Austgen installed the thermal oxidizer and scrubber system control panel.
- Austgen continued developing the control logic for the Off-Site Containment Area in-situ soil vapor extraction system.
- Montgomery Watson Harza exceeded the groundwater treatment plant discharge limit for acetone and biological oxygen demand in January 2002.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Black & Veatch Special Projects Corp. (BVSPC) observed Ryan Construction continue to install the thermal oxidizer and scrubber at the groundwater treatment plant (GWTP). Montgomery Watson Harza (MWH) reported that Austgen continued to develop the control system logic for the Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) system. BVSPC observed Austgen install the control panel for the thermal oxidizer and scrubber system in the GWTP. MWH reported that it stopped operating the GWTP briefly in order to install the scrubber equipment in the plant, thereby minimizing the hazards associated with moving the large scrubber inside the building. MWH also reported that Durr Environmental, Inc. is scheduled to perform its testing of the OFCA ISVE system on February 18, 2002.

MWH reported the slug of water in the yard piping to OFCA ISVE well SVE-7 will be removed early next week prior to system startup. MWH also reported that it will pressure test the yard piping connecting SVE-7 to the OFCA blower shed in order to confirm that a leak is not present in the line. MWH will develop a protocol for removing water from the ISVE yard piping based on the action that it takes for SVE-7. MWH reported that it continues to evaluate the water level in the OFCA and OFCA ISVE wells.

MWH postponed the start up of the OFCA ISVE system to the middle of the week of February 18, 2002. MWH reported that Ryan Construction is scheduled to install the temperature probes located upstream and downstream the blower in the OFCA blower shed for compliance with the Performance Standard Verification Plan.

MWH reported that the repairs to swale 3, located in the northeast corner of the OFCA, will be completed when the ground has frozen or is dry in order to eliminate the potential for additional damage to the cover from the repair work.

MWH reported that it received the analytical results from the January 2002 compliance sampling of the GWTP effluent. MWH reported that the discharge limits for acetone and biological oxygen demand were exceeded. MWH reported that the detections of acetone were verified by two laboratories; therefore, MWH concluded that the detection of acetone is not likely a laboratory artifact. MWH determined that EW-12 is contributing the majority of the acetone and subsequently decreased the flow from EW-12. MWH increased the flow from the remaining extraction wells in order to minimize the acetone concentration while maintaining the total flow through the GWTP. MWH reported that the removal efficiencies in the Activated Sludge Tank were improving; however, MWH continued to investigate insulating the tank and influent water for next winter. MWH is coordinating the groundwater sampling event for March 2002.

MWH held the weekly construction coordination meeting at the site on February 14, 2002.

Topics of Concern:

- MWH was unable to obtain a groundwater elevation at monitoring well MW-18 due to debris in the well. MW-18 is part of the long term monitoring program.
- The residential well located at 1007 Reder Road could not be sampled because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- MWH proposed to replace MW-18 with MW-17 in the *Revised Long-Term Groundwater Monitoring Plan*. MWH will abandon MW-18 in accordance with the Indiana Administrative Code.

Upcoming Activities:

- Ryan Construction to complete installation activities for the thermal oxidizer and scrubber in the GWTP.
- Durr to test the thermal oxidizer and scrubber during the week of February 18, 2002.
- Austgen to complete control logic for the OFCA ISVE system.
- Austgen to repair swale 3 located near Colfax Ave.
- MWH to remove the water from OFCA ISVE well SVE-7 yard piping.
- MWH to startup the OFCA ISVE system during the week of February 18, 2002.
- MWH to schedule the groundwater sampling event in March 2002.

Signature: Leigh Peters

Date: February 18, 2002

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**MWH**

MONTGOMERY WATSON HARZA

By _____ Date _____ Client _____ Sheet _____ of _____
Chkd. By _____ Description _____ Job No. _____

Weekly Construction Meeting
February 14, 2002
SIGN IN SHEET

<u>NAME</u>	<u>COMPANY</u>	<u>FAX No</u>
CHRIS DALY	MWH	630-836-8959
Loigh Peters	BVSPC	312 346 4781
Peter Vajt	MWH	630 836 8959
ROB ADAMS	MWH	630-836-8959
LEE DROSZ	MWH	
KEVIN ADLER (by phone)	USEPA	
TRAVIS KUMARASTH (by phone)	MWH	

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR FEBRUARY 14, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: February 14, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Peter Vagt – MWH
Lee Orosz – MWH
Rob Adams – MWH
Chris Daly – MWH
Leigh Peters – BVSPC
Travis Klingforth – MWH (via phone)
Kevin Adler – U.S. EPA (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidences have occurred since the last meeting. Ryan Construction and Austgen Electric are continuing with the installation of the thermal oxidizer and scrubber.

GWTP Status

The GWTP is on line. Compliance data collected during January indicated two exceedences (Acetone and BOD). MWH summarized the proactive and corrective actions conducted, specifically:

- Supplemental seeding efforts for the Activated Sludge Plant
- A carbon changeout was performed on February 5, 2002.
- It was determined that EW-12 was contributing a large amount of the acetone to the influent stream. Flow from EW-12 was decreased and isolated from the other wells.
- Evaluating insulating and heating alternatives for the activated sludge plant.

A separate letter is being prepared for submittal to the agencies to provide details of the exceedence and corrective action.

The February compliance sampling was performed on February 13, 2002.

In-Situ Vapor Extraction (ISVE) System - Off-Site Area

Ryan Construction and Austgen Electric continued the installation of the thermal oxidizer and scrubber system. The installation is scheduled to be completed by February 15, 2002. A representative from Durr will be on site starting on February 18, 2002 to check system operation.

During the last meeting, it was noted that the SVE-07 conveyance piping contained a slug of water that could not be removed using the SVE blower. This water is most likely a remnant of the construction process. MWH will pump the water out of the piping and retest the integrity of the line during the week of February 18, 2002.

Off-Site Area Temporary Engineered Cover

Austgen, as subcontractor to Koester Environmental Services, will perform repairs of the Off-Site Area cover when conditions permit.

Looking Ahead

Week of February 18 - Thermal Oxidizer/Scrubber troubleshooting and testing, ISVE system preliminary operation.

Next Weekly Construction Meeting

- Thursday, February 21, 2002

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Weekly Oversight Summary Report No. 51
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of February 18, 2002

BVSPC O/S Dates: February 21, 2002 (Ms. Peters)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	3	Respondent's General Contractor
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Ryan Construction	2	General Contractor
Austgen	5	Electrical and General Contractor
Koester Environmental Services	1	OFCA Cover Contractor
Durr Environmental, Inc.	1	Thermal Oxidizer and Scrubber System Contractor

Construction Activities

Major Activities:

- Ryan Construction completed installing the thermal oxidizer and scrubber in the groundwater treatment plant.
- Ryan Construction installed the temperature probes in the Off-Site Containment Area blower shed.
- Austgen continued developing the control logic for the Off-Site Containment Area in-situ soil vapor extraction system.
- Austgen completed repairs to swale 3 on behalf of Koester Environmental Services.
- Durr Environmental, Inc. began testing the thermal oxidizer and scrubber system.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Montgomery Watson Harza (MWH) reported that Ryan Construction completed the installation of the thermal oxidizer and scrubber at the groundwater treatment plant (GWTP). MWH also reported that Durr Environmental, Inc. (Durr) arrived on-site to begin inspecting the thermal oxidizer and scrubber system on Monday, February 18, 2002. On Wednesday, February 20, 2002, Durr began operating the thermal oxidizer in order to cure the ceramic refractory liner located inside the combustion chamber. The refractory curing process was conducted for 24 hours at a target combustion chamber temperature of 1000°C. When the curing process was complete, Durr began testing the scrubber. During the testing of the scrubber, Durr observed that air was escaping from the scrubber at the manufacturer installed flanges. Durr ceased testing

the scrubber and arranged for Ryan Construction to replace the gaskets on the flanges. Durr reported that there was an error with the type of relays and solenoids that were provided for the scrubber. Durr is working with Austgen to install the correct relays and solenoids. MWH was preparing procedures for the clean air start-up of the thermal oxidizer and scrubber system, and for the start-up of the Off-Site Containment Area (OFCA) in-situ soil vapor extraction (ISVE) system.

MWH began pumping the slug of water out of OFCA ISVE well SVE-7 on Monday, February 18, 2002. MWH reported that it was unable to remove the water from the yard piping because of a pump failure. MWH reported that it plans to blow the slug of water back to the well with an air compressor during the following week. MWH ordered the flame-ionization detector for the air monitoring of the OFCA ISVE system and expects to receive it early next week. MWH reported that Ryan Construction installed the temperature probes located upstream and downstream of the blower in the OFCA blower shed for monitoring in accordance with the Performance Standard Verification Plan.

Black & Veatch Special Projects Corp. (BVSPC) observed Austgen begin repairing the riprap in swale 3 located in the northeast corner of the OFCA, near Colfax Ave. Austgen conducted the repairs to swale 3 as a subcontractor to Koester Environmental Services (KES). MWH reported that a KES representative was on-site on Friday, February 22, 2002, in order to oversee the repair work. Austgen removed the riprap by hand and placed erosion matting in the swale. The riprap was then returned to the swale.

MWH reported that the GWTP was not operating for 3 hours this week on February 19, 2002, because of a power failure. When power was returned, MWH resumed normal operation of the GWTP. MWH continued to pump from OFCA and On-Site Containment Area extraction wells and the Perimeter Groundwater Containment System. MWH reported that it collected the February 2002 compliance sample on February 13, 2002. MWH expects to receive the analytical results by early next week. MWH reported that the removal efficiencies in the Activated Sludge Tank were improving; however, the removal efficiency remained lower than desired.

MWH reported that it is finalizing the *Draft Revised Long-Term Groundwater Monitoring Plan* (RLTGMP) to include the comments provided by USEPA and IDEM. MWH is in the process of coordinating the March 2002 groundwater sampling event in accordance with the RLTGMP. MWH scheduled the abandonment of MW18, P61, and P62 for the week of March 11, 2002. MWH scheduled to redevelop MW17 during that time. MWH will be requiring 40-hour trained drillers. MWH scheduled the groundwater sampling event for the week of March 18, 2002. The groundwater sampling event will consist of sampling 31 wells for volatile organic compounds analysis, 3 wells for the semi-volatile organic compound bis(2-chloroethyl)ether analysis, and 3 wells for arsenic analysis.

MWH held the weekly construction coordination meeting at the site on February 21, 2002.

Topics of Concern:

- MWH was unable to obtain a groundwater elevation at monitoring well MW-18 due to debris in the well. MW-18 is part of the long term monitoring program.

- The residential well located at 1007 Reder Road could not be sampled because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- MWH proposed to replace MW-18 with MW-17 in the *Revised Long-Term Groundwater Monitoring Plan*. MWH scheduled to abandon MW-18 in accordance with the Indiana Administrative Code during the week of March 11, 2002.

Upcoming Activities:

- Durr to complete the ambient air testing of the thermal oxidizer and scrubber during the week of February 25, 2002.
- Austgen to complete the control logic for the OFCA ISVE system.
- MWH to remove the water from OFCA ISVE well SVE-7 yard piping.
- MWH to startup the OFCA ISVE system during the week of February 25, 2002.
- MWH to abandon MW18, P61, and P62, and redevelop MW17 during the week of March 11, 2002.
- MWH to conduct the March 2002 groundwater sampling event during the week of March 18, 2002.

Signature: Leigh Peters

Date: February 25, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR FEBRUARY 21, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: February 21, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary

GWTP Status

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

- Thermal Oxidizer/Scrubber assembly completed
- Durr representative on site troubleshooting system
- Anticipated schedule

Off-Site Area Temporary Engineered Cover

- Austgen on site today to perform repair work on Swale 1

Looking Ahead

Week of Feb. 25 – Continue testing of thermal oxidizer/scrubber
- ISVE system testout

Next Weekly Construction Meeting

- Thursday, February 28, 2002

SIGN IN SHEET
WEEKLY CONSTRUCTION MEETING
FEBRUARY 21, 2002

Name	Company	Fax Number
TOM THILLS	MWH	219-924-4561
LITA PUTERIS	BRSPC	312-346-4781
CHRIS DALY	MWH	630-830-8908
LEE OROSZ	MWH	219-924-4561
JOHN BARLOW	DURRENU	1-734-216-4978 (cell #)
KEVIN ADLER	USEPA (via phone)	
PETE VAST	MWH (via phone)	
ROB ADAMS	MWH (via phone)	
TODD LEWIS	MWH (via phone)	
TRAVIS KLINGFORTH	MWH (via phone)	

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR FEBRUARY 21, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: February 21, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Tom Tinics – MWH
Lee Orosz – MWH
Chris Daly – MWH
John Barlow – Durr Environmental
Leigh Peters – BVSPC
Peter Vagt – MWH (via phone)
Rob Adams – MWH (via phone)
Todd Lewis – MWH (via phone)
Travis Klingforth – MWH (via phone)
Kevin Adler – U.S. EPA (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidences have occurred since the last meeting on February 14, 2002. Durr Environmental is on site to perform startup testing of the thermal oxidizer/scrubber system in the Groundwater Treatment Plant. Caution tape and signs will be placed around the scrubber to warn of high temperatures. Austgen is on site on February 21, 2002 to begin repair work on Drainage Swale 1 in the Off-Site Area. Because of the wet conditions, they are performing the work by hand, minimizing the health and safety hazards associated with this activity.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently operating at 30 gallons per minute. February compliance samples were collected on February 13, 2002. Results are expected early next week. A memorandum summarizing exceedences in the January 2002 data was forwarded to the EPA on February 20, 2002. Electrical power was briefly lost the evening of February 19, 2002. The plant was brought back on line approximately three hours later.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

Ryan Construction installed two temperature gauges on the influent and effluent piping in the blower shed. Durr Environmental has been on site this week performing the startup testing of the thermal oxidizer/scrubber system. As of February 21, 2002, the thermal oxidizer has successfully undergone troubleshooting. Durr continues to “cure” the clay

refractory lining in the combustion chamber by slowing removing moisture from the lining. Durr has not been able to finish troubleshooting the scrubber because the relay components for the scrubber's solenoid valves have not yet arrived on site. The relays will be installed and wired by Austgen once they arrive on site. Durr anticipates completion of the scrubber testing during the first part of the week of February 25, 2002 and full ISVE system testing later in the week.

Off-Site Area Temporary Engineered Cover

Austgen, as subcontractor to Koester Environmental Services, is on site February 21, 2002 to perform repair work on Swale 1.

Groundwater Monitoring

MWH is currently revising the Groundwater Monitoring Plan based on U.S. EPA and IDEM comments. The March sampling event has been scheduled for March 18-22, 2002. This event will include sampling of 31 wells for VOCs and 3 for SVOCs. Prior to the sampling event, during the week of March 11, Mid-America Drilling will abandon well MW-18 and piezometers P-61 and P-62. MW-18 is an upgradient well that is currently obstructed; P-61 and P-62 are damaged. Mid-America will install a replacement upgradient well for MW-18.

Looking Ahead

Week of...

February 25	<ul style="list-style-type: none">• Continue ThermOx system testing• ISVE system testout
March 4	
March 11	<ul style="list-style-type: none">• Well abandonment/ replacement installation
March 18	<ul style="list-style-type: none">• March sampling event

Next Weekly Construction Meeting

- Thursday, February 28, 2002

CAD/RAA/TMK

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Weekly Oversight Summary Report No. 52
ACS Superfund Site WA57, 46526.238

Reporting Period: Week of February 25, 2002

BVSPC O/S Dates: February 28, 2002 (Ms. Peters)

Personnel Summary Affiliation	No. of Personnel	Responsibility
Montgomery Watson Harza	4	Respondent's General Contractor
U.S. Environmental Protection Agency	1	
Black & Veatch Special Projects Corp.	1	USEPA Oversight Contractor
Ryan Construction	2	General Contractor
Austgen	2	Electrical Contractor

Construction Activities

Major Activities:

- Ryan Construction continued replacing the gaskets on the scrubber flanges.
- Austgen continued developing the control logic for the Off-Site Containment Area in-situ soil vapor extraction system.
- Montgomery Watson Harza held the weekly construction coordination meeting.

Activities Performed:

Black & Veatch Special Projects Corp. (BVSPC) observed Ryan Construction replace the gaskets for the scrubber flanges. Montgomery Watson Harza (MWH) reported that Austgen installed the new relays for the scrubber. MWH anticipates Austgen will complete the control logic for the ISVE system by mid to late March. MWH also reported that Durr Environmental, Inc. (Durr) is scheduled to return to the site on March 4, 2002, to complete the ambient air testing of the thermal oxidizer and scrubber system. Pending the results of the ambient air test, MWH anticipates the start-up of the Off-Site Containment Area (OFCA) in-situ soil vapor extraction system (ISVE) to begin at the end of the week of March 4, 2002.

MWH received the flame-ionization detector and will be scheduling training for the equipment next week. MWH will also perform background air monitoring of the OFCA blower shed and the GWTP prior to the OFCA ISVE system startup.

MWH reported that Austgen and Koester Environmental Services completed the repairs to swale 3, located in the northwest portion of the site near Colfax Ave., last week. MWH also reported that it will

conduct maintenance activities for the OFCA cover this spring. Maintenance activities will include replacing erosion matting, installing additional silt fencing, and repairing the erosion fingers present in the clay cover. MWH also reported that compaction testing is required for the cover in the Kapica-Pazmey area that was disturbed during OFCA ISVE yard piping installation activities in December 2001.

MWH reported that the GWTP was pumping 30 gpm from the Perimeter Groundwater Containment System and extraction wells EW-10, EW-11, EW-15, EW-16, EW-19, and EW-19A. MWH reported that the liquid level at extraction well EW-13 is located approximately 2 feet above the bottom of the well. MWH received the results for the February 2002 GWTP effluent compliance sample taken on February 13, 2002. MWH reported that both the acetone and biological oxygen demand concentrations had exceeded the allowable discharge limits in January 2002, but were less than one-half of the allowable discharge limits in February. MWH reported that it will continue to actively monitor the granular activated carbon in order to prevent future exceedences of the discharge limits. MWH also reported that the removal efficiencies in the Activated Sludge Tank were improving; however, the removal efficiency remained less than desired. MWH is soliciting bids for insulating the Activate Sludge Tank and adding a heat exchanger for the influent lines in order to increase the efficiency of the tank. MWH reported that upgrades to the tank and influent lines would not be conducted until late spring at the earliest.

MWH reported that it moved and will inventory several coolers and sampling equipment from split sampling activities conducted by BVSPC. MWH reported that it will dispose of any water samples in the GWTP. MWH and EPA discussed the disposal options for the sample jars containing soil materials. The disposal options discussed included placing the material underneath the OFCA cover in the spring when cover maintenance activities will be conducted.

MWH reported that it is finalizing the *Draft Revised Long-Term Groundwater Monitoring Plan* (RLTGMP) to include the comments provided by USEPA and IDEM. MWH scheduled the abandonment of MW18, P61, and P62 for the week of March 18, 2002. MWH also scheduled to redevelop MW17 and to install replacement piezometers during that time. MWH scheduled the groundwater sampling event for the week of March 18, 2002, in accordance with the RLTGMP. The groundwater sampling event will consist of sampling 31 wells for volatile organic compounds analysis, 3 wells for the semi-volatile organic compound bis(2-chloroethyl)ether analysis, and 3 wells for arsenic analysis.

MWH held the weekly construction coordination meeting at the site on February 28, 2002.

Topics of Concern:

- MWH was unable to obtain a groundwater elevation at monitoring well MW-18 due to debris in the well. MW-18 is part of the long term monitoring program.
- The residential well located at 1007 Reder Road could not be sampled because the pump was not operating. This well is part of the long term monitoring program.

Concern Resolution:

- MWH proposed to replace MW-18 with MW-17 in the *Revised Long-Term Groundwater Monitoring Plan*. MWH scheduled to abandon MW-18 in accordance with the Indiana Administrative Code during the week of March 11, 2002.

Upcoming Activities:

- Durr to complete the ambient air testing of the thermal oxidizer and scrubber during the week of March 4, 2002.
- Austgen to complete the control logic for the OFCA ISVE system.
- MWH to remove water from OFCA ISVE well SVE-7 yard piping.
- MWH to startup the OFCA ISVE system during the week of March 4, 2002.
- MWH to abandon MW18, P61, and P62, redevelop MW17, and install replacement piezometers during the week of March 11, 2002.
- MWH to conduct the March 2002 groundwater sampling event during the week of March 18, 2002.

Signature: Leigh Peters

Date: March 4, 2002

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**WEEKLY CONSTRUCTION MEETING AGENDA
FOR FEBRUARY 28, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: February 28, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

TOPICS:

Health and Safety Summary

GWTP Status

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

- Durr representative not on site this week. Missing/incorrect parts delivered late last week and this week.
- Ryan on site to install caulking around all flanges on scrubber
- Anticipated schedule

Off-Site Area Temporary Engineered Cover

- Austgen/Koester completed repair work on Swale 1

Looking Ahead

Week of...

March 4	<ul style="list-style-type: none">• Continue ThermOx system testing• ISVE system testout
March 11	<ul style="list-style-type: none">• Well abandonment/ replacement installation
March 18	<ul style="list-style-type: none">• March sampling event
March 25	

Next Weekly Construction Meeting

- Thursday, March 7, 2002

SIGN IN SHEET
WEEKLY CONSTRUCTION METING
FEBRUARY 28, 2002

Name	Company	Fax Number
Peter Vagt	MWH	(630) 836 8959
Kevin Adler	EPA	(312) 353-5541
Lough Peters	BRSPC	(312) 346 4781
LEE OROSZ	MWH	
Craig Dany	MWH	
Tom Tynes	MWH	
VIA PHONE		
Todd Lewis	MWH	
Rob Adams	MWH	
TRAVIS KUNFORTH	MWH	
SHAWN GRADY	IDEM	

**WEEKLY CONSTRUCTION MEETING MINUTES
FOR FEBRUARY 28, 2002 MEETING
AMERICAN CHEMICAL SERVICE, NPL SITE
GRIFFITH, INDIANA**

MEETING DATE: February 28, 2002

MEETING TIME: 10:00 AM

MEETING LOCATION: ACS Site – Site Trailer

ATTENDEES: Tom Tinics – MWH
Lee Orosz – MWH
Chris Daly – MWH
Leigh Peters – BVSPC
Kevin Adler – U.S. EPA
Peter Vagt – MWH
Sean Grady – MWH (via phone)
Rob Adams – MWH (via phone)
Todd Lewis – MWH (via phone)
Travis Klingforth – MWH (via phone)

TOPICS:

Health and Safety Summary

No health and safety incidences have occurred since the last meeting on February 21, 2002. Ryan Construction is on site re-sealing flanges on the scrubber for the thermal oxidizer unit. A Flame Ionization Detector (FID) has arrived at the site for ISVE system monitoring. MWH will complete a baseline vapor survey in the blower shed and around the thermal oxidizer/scrubber system prior to system operation. A training session for use of the FID will be scheduled and the date and time will be announced.

Groundwater Treatment Plant (GWTP) Status

The GWTP is currently operating at 30 gallons per minute from the PGCS, MW-54, EW-10, EW-11, EW-15, EW-16, EW-19, and EW-19A. The plant has been operating continuously (no downtime) since last week's meeting. Carbon usage is being monitored and is normal.

The storage area in the GWTP is being cleaned out. Approximately 12-14 coolers full of samples (water and soil), many collected by Black & Veatch, need to be disposed of. MWH will compile a list of these items and propose a method for disposal of each type of material.

The liquid level in EW-13, near KP area, has been consistently low. This may indicate dewatering is progressing well.

The February compliance sample, collected February 13, 2002, indicates BOD discharge levels were one-half of the limits. This indicates the microbial population in the activated sludge plant is improving. MWH is currently evaluating options for installation of a heat exchanger and insulation for raising/maintaining the temperature of the water in both outside tanks. Work associated with this item would most likely be performed in the summer.

In-Situ Vapor Extraction (ISVE) System – Off-Site Area

Startup of the thermal oxidizer/scrubber system will continue next week. The work has been delayed due to missing/malfunctioning parts on the delivered system. All missing and replacement items have been delivered to the site this week. Ryan Construction is on site re-sealing flanges on scrubber because the sealant/gasket materials were found not to hold water during the clean water test.

Off-Site Area Temporary Engineered Cover

Austgen, as subcontractor to Koester Environmental Services, completed repair of Swale 1, near the NE gate of Off-Site area. Work was completed on February 22, 2002. Repair included the following steps: the swale was pulled apart, silt was removed, riprap was replaced, and new erosion mat installed.

Correction to Last Week's Meeting Minutes

A new monitoring well will not be installed to replace MW-18, as noted in last week's meeting minutes. Instead, existing monitoring well MW-17 will be redeveloped prior to the March 2002 sampling event and take the place of MW-18 in the current groundwater monitoring sampling plan. MW-18 is also scheduled for abandonment as soon as the property owner can be contacted and provides approval for the procedure.

Looking Ahead

Week of...	Task
March 4	<ul style="list-style-type: none">Continue ThermOx system testingISVE system testout
March 11	<ul style="list-style-type: none">Well abandonment/redevelopment/piezometer replacement
March 18	<ul style="list-style-type: none">March groundwater sampling event. (Actual date will be confirmed)
March 25	

Next Weekly Construction Meeting

- Thursday, March 7, 2002

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(14)

1/30/02

Jeff E Peters

1055

Roll 18 Photo 11 facing west of C. Daly reading flowmeter prior to condensate tank

Roll 18 Photo 12 facing north of T. Tinius closing valve to atmospheric air

Rated load for blower test is 9.5 inches of water vacuum, 23 inches off water pressure.

1130

Returned to MWH trailer to work on reports.

1210

T. Tinius shut down blower in OFCA blower shed. Motors still on original reading. Will finish testing this week. Temperature gage not installed.

1225

Left site for day.

Jeff E Peters
1/30/02

(15)

2/14/02

Jeff E Peters

0815 Arrive On-site, Partly Cloudy, 34°F Wind from South
Personnel Present

* Lee Dross MWH

Don Lunsford Austgen

Jerry Clark Ryan

Tim Kirkland Austgen

Tom Evers Ryan

Gary Alexander Austgen

Terry Frick Ryan

* Chris Daly MWH

* Leigh Peters BVSPC

0825 Spoke with C. Daly regarding current site activities. He reported Ryan is on track to complete installation of thermal oxidizer scrubber system by end of week. Representative from Durr Env. to be on site 2/18/02 for testing of oxidizer/scrubber system. C. Daly reported MWH to start operation of OFCA ISVE system on Manual Mode during day, off at night. Austgen still working on control system. MWH reported when Austgen has completed controls, MWH operate OFCA ISVE system continuously. C. Daly reported slug of water found in SVE-7. MWH to pump out prior to system startup. MWH believes water left over from yard piping installation and

Jeff E Peters

(16)

2/14/02

J. S. Peters

was not removed by heritage prior to connecting piping. C. Daly to check on status of FID for system start up monitoring for PRSP

0910 Went to GWTP with C. Daly to see oxidizer scrubber system.

0915 Roll 19 Photo 1 facing southwest showing Ryan installing scrubber.

0925 Roll 19 Photo 2 facing east of thermal oxidizer

0930 Roll 19 Photo 3 facing west showing thermal oxidizer and ambient air blower

0935 Roll 19 Photo 4 facing southeast showing base of scrubber.

0940 Roll 19 Photo 5 facing southeast showing top of scrubber.

Discussed thermal oxidizer /scrubber system with C. Daly. He reported that DFCA blower shed instrumentation not field calibrated, to perform early next week.

MWH working under 1999 AUSA¹ PSVP

1000 Weekly Construction Coordination meeting

Attendees (*on previous list plus)

Rob Adams MWH Travis Kingforth (via phone)

Peter Vagt MWH

Kevin Adler USEPA (via phone)

J. S. Peters

(17)

2/14/02

J. S. Peters

Health and Safety: MWH turned off GWTP during scrubber installation to prevent hazards or problems. No H&S incidents have occurred.

GWTP: MWH received January 2002 compliance data - exceeded acetone and BOD. MWH determined ENIZ is likely source of acetone and reduced flow from ENIZ and increased flow from other EUS. Short term: MWH to frequently monitor carbon usage and change. Long term - MWH investigating insulating tank and pre heating influent.

ISVE: Installation of thermox to be complete this week. Data on-site next week. MWH may pull vapors from DFCA on 2/19 or 2/20. MWH to remove water and test line at SVE-7 next week.

DFCA exp: on hold until weather improves

RLTGND: MWH received comments. next ground water sampling in March 2002

Next Meeting: February 21, 2002

1030 Weekly meeting concluded

1040 To DFCA blower shed with R. Vagt and C. Daly

2 temperature ~~max~~ CP probes still need to be installed in blower shed Ryan construction to install pipe to startup for compliance with PRSP PSVP

1110 Left site for day

J. S. Peters

(18)

2/21/02

Tough E. Peters

0815

Arrive on-site. Partly Cloudy 35°F, SW wind

Personal Present

+ Lee Oresz

MWH

Gary Alexander

Austgen's

* Tom Timics

MWH

* Leigh Peters

BVSPL

* Chris Daly

MWH

0830

Spoke with Tom Timics, he reported that oxidizer turned on last night at 2:00 PM to cure the refractory. Refractory cures at 1600°F. Will be completed this morning.

Durr Technician on-site this week. Tom Timics reported that technicians determined that need additional relays. Durr has not tested scrubber. C. Daly reported Durr to test entire system still. MWH to install sample ports on influent/effluent. C. Daly reported FID to arrive early next week. MWH to operate with vapors next week. Will not be "start-up" described in BNP - but MWH to still take field measurements. SVE-7 not pumped water yet from it. MWH to remove water from SVE-7 - may blow out water back to well.

1000

Weekly Construction Meeting

Attendees (* on previous list) plus:

Tough E. Peters

(19)

2/21/02

Tough E. Peters

P. Vagt MWH (via phone)

T. Lewis MWH (vi-phone)

R. Adams MWH (via phone)

T. Klingforth MWH (via phone)

K. Adler EPA (via phone)

John Durland Durr Environmental

H.S. - No incidents.

MWH to put caution tape + saw horses around scrubber because of hot during curing.

GWTR: Pumping 30 gpm, OFCA, ONCA, PLCS.

Power out for 3 hours this week - system down.

Biobank improving not at design efficiency.

Expect Feb compliance results early next week.

SVE: Durr curing refractory to be complete today.

Durr waiting for relay switches working.

with Austgen. When done, Durr to test scrubber.

Durr to de-bug scrubber, expect clean air operations from OFCA blower next Wednesday.

MWH to write clean air procedures and systems start up procedures. Will draw from wells throughout SVE well field depending on available screen.

Groundwater Monitoring:

3/11-3/15 - MWH to abandon MW15, PL1, PL2

and develop MW17 (replacement upgradient)

3/15-3/22 - GW sampling event - 31 wells VGS.

3 wells SVCS, 3 wells - Metals

Tough E. Peters

(20)

2/21/02 *John P. Peters*DFCA Cover: Austgen repairing swale by hand

KES to be on site - to be completed by Friday 12:00

Look Ahead: testing thermox/scrubber

start pulling DFCA vapors.

swale to be completed

Next Meeting: February 28, 2002, at 10:00

1040 Meeting adjourn

1110 Went to DFCA to observe swale repairs

Observed Austgen removing riprap

1115 Roll 19 Photo 6 facing north showing

Austgen removing riprap from swale

1130 returned to BWTP -

Roll 19 Photo 7 facing southwest showing

entire scrubber for DFCA ISVE system

1150 Left site for day

John P. Peters
2/21/02

(21)

2/25/02

John P. Peters

0810 Arrive on-site. P. Cloudy, 20°F wind from South

Personnel Present:

* Lee Brosz MNH

* Tom Tince MNH

Dave Hinkel Ryan

Jerry Clark Ryan

* Leigh Peters BKSPC

0825 Spoke with Tom Tince regarding site activities

Austgen completed installing valves Ryan

Construction on site replacing gaskets in

scrubber that were installed by Durr. Durr

representative not to be back on-site

until next week to complete testing of

system MNH moving sampling equipment,

coolers and jugs from split sampling conducted

previously by BKSPC. MNH reported Austgen

completed repairs to swale last week. MNH

received FID.

0850 Ton DFCA to see repaired swale. Snow present

on ground unable to determine extent of repair

0930 Observed Ryan Construction repair gaskets

on scrubber in BWTP

0935 Roll 19 Photo 8 facing south of inside of

scrubber column and packing material

John P. Peters

(22)

2/28/02

Toby E. Peters

- 0935 Roll 19 Photo 9 Ryan construction removing sealant material on gasket photo taking south west
- 0940 Roll 19 Photo 10 taking south looking at ground showing detail of scrubber packing material - wigdits
- 1000 Weekly construction meeting
Attendees (X on previous list) plus:
Kevin Adler USEPA Chris Dalg MNH
Pete Vagf MNH Rob Adams MNH (via phone)
Sean Grady IDEM (via phone)
Travis Klingforth MNH (via phone)
Todd Lewis MNH (via phone)
- H/S: No H/S incidents. MNH to monitor air space around blowershed and ThermoX system with FID. MNH to schedule training for personnel on FID. Tool-box H/S meetings held daily
- GWTP: MNH pumping 30 gpm from PEGS. EN10, EN15, EN16, EN18, EN19A. MNH continued to monitor carbon and removal efficiency of sludge tank. MNH reported EN13A lig level ~2 ft from bottom of well. Measured pO₂ and acetone 2/15/02 at 1/2 of discharge limits. Discussed coolers and disposal of sampling jars.
- ISVE: DNR out 3H to complete testing. Ryan

Toby E. Peters

(23)

Toby E. Peters

2/28/02

- replacing faulty gaskets - scrubber bumped on Friday. 1 leaks observed. Austgen finishing controls
- OFCA: repairs to smoke complete. Maintenance of cover to be done in spring. repair erosion fingers, and additional compaction testing needed in K-P area.
- Look Ahead: Well abandonment / piezometer replacement week of 3/11/02. GW sampling 3/18/02. MNH to operate ISVE system, possibly next week
- 1045 Mtg concluded, next meeting 3/7/02 @ 10AM
- 1050 Towed ThermoX and scrubber with K. Adler
- 1115 Went to OFCA blowershed.
- 1140 checked location of MW18 with RALPH for future abandonment
- 1205 Inventory of coolers - 5 BVSPC coolers, 2 unknown, 1 - EEE ARCS V #221, 1 - QUANTERA 1 - Compuchiller, 1 - Dept Waste Mgmt Richmond Va 1 - DNR - Milwaukee Wisc.
- 1230 Left site for day

Toby E. Peters
2/28/02

The following photos did not develop because of insufficient light:

Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 19 Photo #1
Date: 2-14-02 Time: 09:15
Photographer: Leigh Peters
Description: Photo facing southwest showing Ryan Construction installing the scrubber in the groundwater treatment plant.

Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 19 Photo #4
Date: 2-14-02 Time: 09:35
Photographer: Leigh Peters
Description: Photo facing southeast showing the base of the scrubber installed inside the groundwater treatment plant building.

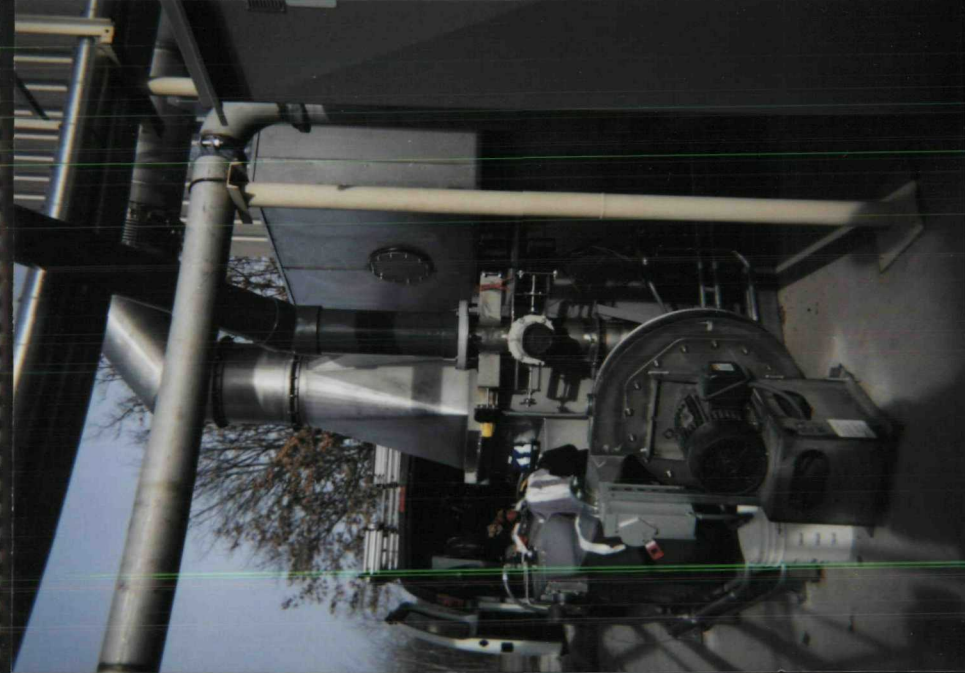
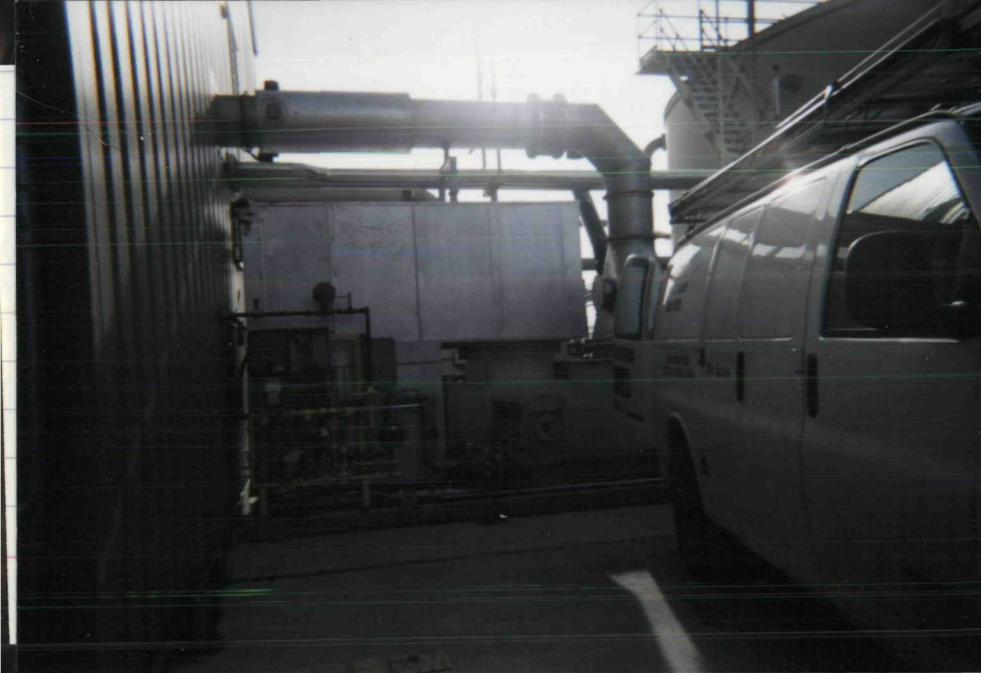
Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 19 Photo #5
Date: 2-14-02 Time: 09:40
Photographer: Leigh Peters
Description: Photo facing southeast showing the top of the scrubber and stack installed in the groundwater treatment plant building.

Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 19 Photo #7
Date: 2-21-02 Time: 11:30
Photographer: Leigh Peters
Description: Photo facing southwest showing the scrubber installed in the groundwater treatment plant building.

Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 19 Photo #8
Date: 2-28-02 Time: 09:35
Photographer: Leigh Peters
Description: Photo facing south showing the packing material inside of the scrubber.

Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 19 Photo #9
Date: 2-28-02 Time: 09:35
Photographer: Leigh Peters
Description: Photo facing south showing Ryan Construction removing the gasket on the scrubber flange.

Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 19 Photo #10
Date: 2-28-02 Time: 09:40
Photographer: Leigh Peters
Description: Photo facing south showing the packing material for the scrubber.



Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 19 Photo #2

Date: 2-14-02 Time: 09:25

Photographer: Leigh Peters

Description: Photo facing east showing the thermal oxidizer installed immediately south of the groundwater treatment plant building.

Site: American Chemical Services, Inc.

Proj. #: 46526

Roll: 19 Photo #3

Date: 2-14-02 Time: 09:30

Photographer: Leigh Peters

Description: Photo facing west showing the eastern side of the thermal oxidizer and ambient air blower.



Site: American Chemical Services, Inc.
Proj. #: 46526
Roll: 19 Photo #6
Date: 2-21-02 Time: 11:15
Photographer: Leigh Peters
Description: Photo facing north showing Austgen
removing riprap to repair swale 3 located
on the northeast portion of the Off-Site
Containment Area.